SEQUENCE LISTING

<110> Samuel Jotham Reich
Enrico Maria Surace
Michael J. Tolentino

<120> COMPOSITIONS AND METHODS FOR siRNA
INHIBITION OF HIF-1 ALPHA

<130> 43826-0002US1

<150> US 60/423,262
<151> 2002-11-01

<160> 299

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 2964
<212> DNA
<213> Homo sapiens

<400> 1
ggccgtccct ggcggcggag atggcggcga cagcggcgga ggctgtgacc tctggctctg 60
gagagccccg ggaggaggct ggagccctcg gccccgcctg gcatgaatcc cagttgcgca 120
gttatagctt cccgactagg cccattccgc gtctgagtca gagcgacccc cgggcagagg 180
agcttattga gaatgaggag cctgtggtgc tgaccgacac aaatcttgtg tatcctgccc 240
tgaaatggga ccttgaatac ctgcaagaga atattggcaa tggagacttc tctgtgtaca 300
gtgccagcac ccacaagttc ttgtactatg atgagaagaa gatggccaat ttccagaact 360
ttaagccgag gtccaacagg gaagaaatga aatttcatga gttcgttgag aaactgcagg 420
atatacagca gcgaggaggg gaagagaggt tgtatctgca gcaaacgctc aatgacactg 480
tgggcgggaa gattgtcatg gacttcttag gttttaactg gaactggatt aataagcaac 540
agggaaagcg tggctggggg cagcttacct ctaacctgct gctcattggc atggaaggaa 600
atgtgacacc tgctcactat gatgagcagc agaacttttt tgctcagata aaaggttaca 660
aacgatgcat cttattccct ccggatcagt tcgagtgcct ctacccatac cctgttcatc 720
acccatgtga cagacagagc caggtggact ttgacaatcc cgactacgag aggttcccta 780
atttccaaaa tgtggttggt tacgaaacag tggttggccc tggtgatgtt ctttacatcc 840
caatgtactg gtggcatcac atagagtcat tactaaatgg ggggattacc atcactgtga 900
acttctggta taaggggget cccaccccta agagaattga atatcctctc aaagctcatc 960
agaaagtggc cataatgaga aacattgaga agatgcttgg agaggccttg gggaacccac 1020
aagaggtggg gcccttgttg aacacaatga tcaagggccg gtacaactag cctgccaggg 1080
gtcaaggcct cctgccaggt gactgctatc ccgtccacac cgcttcattg atgaggacag 1140
gagactccaa gcgctagtat tgcacgctgc acttaatgga ctggactctt gccatggccc 1200
aggagtcagg tgtttggagc gaggcagggc agttggcact ccactcctat ttggagggac 1260
ttcataccct tgcctcttgt gccccagcac cttctctctc tgccccccgc ctaaagtcct 1320
gcattcagtg tgtggagtcc cagcttttgg ttgtcatcat gtctgtgtgt atgttagtct 1380
gtcaacttcg gaatgtgtgc gtgtgtgtgc atgcacacgc atgtatgtat ctgttccctg 1440
ttccttctgg gtcaggctgt cacttccggc tctcggccct atctcctgca acctcagtgc 1500
ctcagcctga gagagagatg agatgctctt ggactcccca ctgcatctgg gctgcagggc 1560
cagagctagt ctgaccatta ggtcagtctg cctcctgaca gtttttgcgt agtcaagctc 1620
taggcggtat gggaatggct accgggactc taatggggtg aaagagaggg gaggcttgcc 1680

tttgagagcc tatatagcct tcctgtgaga gaggattaga tagggttcca actgggccta 1740
caagctcaag ccatacataa aaggaccttg ggacataaga accaatgatt gtgcataagt 1800
tctaaattag agacacatat agtttctctc tttcagcacc agctcttgcc cctatgctgg 1860
gtaccaaggg agttctccta gctgtggctt ctctaggttc taggggtgca agcctctgtg 1920
tgtttgtttg tgtgtgtctg tgtgtgcgta tccacactag gggtgcaagc ctctgggtgt 1980
gtgtgtgtgt gtgcgtgcgt gtgtgtgtgt gtgtccgtgt gtgtgtgtgt gtgtccacac 2040
tggccagcct ccctacttac caaggttctc cactgcttac cttttccagt gggacagtac 2100
agtgtgagcc cccgggaagt actgcctgac ctatcctaag cttttacact tggattttag 2160
ccatcatatg ttggccaggt ttcactgcag cctgcccgag gctaactggc tagagcctcc 2220
aggccctatg atgctccctg cccaggccat atcctttatt cctgctgagc ttcctggctg 2280
aatagatgaa atggggtcaa gcccaggcag ctcattcact atctgtgatc cacctcaggg 2340
cacgggcaaa cacataggct tgcgtcttaa agccagctcc tctgccagac cccgttgtaa 2400
tgtgccacaa caccctcaat agtcagggca actggtggag catggaagtc gaatttcctt 2460
ttctgttagg agctactcct gggaacccct ctcagggctg cagcttacag gtgggcagct 2520
gtgattgcac aacttgaagg gccatcattc acatctattc agtgggagtg gggtccctgg 2580
gattgggcag tgtggtggcc ctgtgtctcc tcacctctgc tcctgtcttc atcaccttct 2640
ctctggaagg gaagaggagt tggaaggtct ctggttttct tttctttttt ttttttgcc 2700
aaaggtttac ttccagcatc tgagctctgg ctctcacccc tgaagctcag ttatagtgca 2760
ctgatgaact gagaggatgc gtgtggatgt gtgtgcatgc ctgagtgcgt tttttgggga 2820
ggggtgttta tttttagtac cccattctgg ggttctctga tgcagtgtgg atgtgaagat 2880
atggtacctt ctcaagtgta gctctttcaa atatagtcaa tgctgggaaa aaaaaaaaaa 2940
aaaaaaaaaa aaaaaaaaaa aaaa 2964

<210> 2
<211> 3958
<212> DNA
<213> Homo sapiens

<400> 2
gtgctgcctc gtctgagggg acaggaggat caccctcttc gtcgcttcgg ccagtgtgtc 60
gggctgggcc ctgacaagcc acctgaggag aggctcggag ccgggcccgg accccggcga 120
ttgccgcccg cttctctcta gtctcacgag gggtttcccg cctcgcaccc ccacctctgg 180
acttgccttt ccttctcttc tccgcgtgtg gagggagcca gcgcttaggc cggagcgagc 240
ctgggggccg cccgccgtga agacatcgcg gggaccgatt caccatggag ggcgccggcg 300
gcgcgaacga caagaaaaag ataagttctg aacgtcgaaa agaaaagtct cgagatgcag 360
ccagatctcg gcgaagtaaa gaatctgaag ttttttatga gcttgctcat cagttgccac 420
ttccacataa tgtgagttcg catcttgata aggcctctgt gatgaggctt accatcagct 480
atttgcgtgt gaggaaactt ctggatgctg gtgatttgga tattgaagat gacatgaaag 540
cacagatgaa ttgcttttat ttgaaagcct tggatggttt tgttatggtt ctcacagatg 600
atggtgacat gatttacatt tctgataatg tgaacaaata catgggatta actcagtttg 660
aactaactgg acacagtgtg tttgatttta ctcatccatg tgaccatgag gaaatgagag 720
aaatgcttac acacagaaat ggccttgtga aaaagggtaa agaacaaaac acacagcgaa 780
gctttttttct cagaatgaag tgtaccctaa ctagccgagg aagaactatg aacataaagt 840
ctgcaacatg gaaggtattg cactgcacag gccacattca cgtatatgat accaacagta 900
accaacctca gtgtgggtat aagaaaccac ctatgacctg cttggtgctg atttgtgaac 960
ccattcctca cccatcaaat attgaaattc ctttagatag caagactttc ctcagtcgac 1020
acagcctgga tatgaaattt tcttattgtg atgaaagaat taccgaattg atgggatatg 1080
agccagaaga acttttaggc cgctcaattt atgaatatta tcatgctttg gactctgatc 1140
atctgaccaa aactcatcat gatatgttta ctaaaggaca agtcaccaca ggacagtaca 1200
ggatgcttgc caaaagaggt ggatatgtct gggttgaaac tcaagcaact gtcatatata 1260
acaccaagaa ttctcaacca cagtgcattg tatgtgtgaa ttacgttgtg agtggtatta 1320
ttcagcacga cttgattttc tcccttcaac aaacagaatg tgtccttaaa ccggttgaat 1380
cttcagatat gaaaatgact cagctattca ccaaagttga atcagaagat acaagtagcc 1440
tctttgacaa acttaagaag gaacctgatg ctttaacttt gctggcccca gccgctggag 1500
acacaatcat atctttagat tttggcagca acgacacaga aactgatgac cagcaacttg 1560

aggaagtacc attatataat gatgtaatgc tcccctcacc caacgaaaaa ttacagaata 1620
taaatttggc aatgtctcca ttacccaccg ctgaaacgcc aaagccactt cgaagtagtg 1680
ctgaccctgc actcaatcaa gaagttgcat taaaattaga accaaatcca gagtcactgg 1740
aactttcttt taccatgccc cagattcagg atcagacacc tagtccttcc gatggaagca 1800
ctagacaaag ttcacctgag cctaatagtc ccagtgaata ttgtttttat gtggatagtg 1860
atatggtcaa tgaattcaag ttggaattgg tagaaaaact ttttgctgaa gacacagaag 1920
caaagaaccc attttctact caggacacag atttagactt ggagatgtta gctccctata 1980
tcccaatgga tgatgacttc cagttacgtt ccttcgatca gttgtcacca ttagaaagca 2040
gttccgcaag ccctgaaagc gcaagtcctc aaagcacagt tacagtattc cagcagactc 2100
aaatacaaga acctactgct aatgccacca ctaccactgc caccactgat gaattaaaaa 2160
cagtgacaaa agaccgtatg gaagacatta aaatattgat tgcatctcca tctcctaccc 2220
acatacataa agaaactact agtgccacat catcaccata tagagatact caaagtcgga 2280
cagcctcacc aaacagagca ggaaaaggag tcatagaaca gacagaaaaa tctcatccaa 2340
gaagccctaa cgtgttatct gtcgctttga gtcaaagaac tacagttcct gaggaagaac 2400
taaatccaaa gatactagct ttgcagaatg ctcagagaaa gcgaaaaatg gaacatgatg 2460
gttcactttt tcaagcagta ggaattggaa cattattaca gcagccagac gatcatgcag 2520
ctactacatc actttcttgg aaacgtgtaa aaggatgcaa atctagtgaa cagaatggaa 2580
tggagcaaaa gacaattatt ttaataccct ctgatttagc atgtagactg ctggggcaat 2640
caatggatga aagtggatta ccacagctga ccagttatga ttgtgaagtt aatgctccta 2700
tacaaggcag cagaaaccta ctgcagggtg aagaattact cagagctttg gatcaagtta 2760
actgagcttt ttcttaattt cattcctttt tttggacact ggtggctcac tacctaaagc 2820
agtctattta tattttctac atctaatttt agaagcctgg ctacaatact gcacaaactt 2880
ggttagttca atttttgatc ccctttctac ttaatttaca ttaatgctct tttttagtat 2940
gttctttaat gctggatcac agacagctca ttttctcagt tttttggtat ttaaaccatt 3000
gcattgcagt agcatcattt taaaaaatgc acctttttat ttatttattt ttggctaggg 3060
agtttatccc tttttcgaat tatttttaag aagatgccaa tataattttt gtaagaaggc 3120
agtaaccttt catcatgatc ataggcagtt gaaaaatttt tacacctttt ttttcacatt 3180
ttacataaat aataatgctt tgccagcagt acgtggtagc cacaattgca caatatattt 3240
tcttaaaaaa taccagcagt tactcatgga atatattctg cgtttataaa actagttttt 3300
aagaagaaat tttttttggc ctatgaaatt gttaaacctg gaacatgaca ttgttaatca 3360
tataataatg attcttaaat gctgtatggt ttattattta aatgggtaaa gccatttaca 3420
taatatagaa agatatgcat atatctagaa ggtatgtggc atttatttgg ataaaattct 3480
caattcagag aaatcatctg atgtttctat agtcactttg ccagctcaaa agaaaacaat 3540
accctatgta gttgtggaag tttatgctaa tattgtgtaa ctgatattaa acctaaatgt 3600
tctgcctacc ctgttggtat aaagatattt tgagcagact gtaaacaaga aaaaaaaaat 3660
catgcattct tagcaaaatt gcctagtatg ttaatttgct caaaatacaa tgtttgattt 3720
tatgcacttt gtcgctatta acatcctttt tttcatgtag atttcaataa ttgagtaatt 3780
ttagaagcat tattttagga atatatagtt gtcacagtaa atatcttgtt ttttctatgt 3840
acattgtaca aatttttcat tccttttgct ctttgtggtt ggatctaaca ctaactgtat 3900
tgttttgtta catcaaataa acatcttctg tggaccagga aaaaaaaaaa aaaaaaaa 3958

<210> 3
<211> 3812
<212> DNA
<213> Homo sapiens

<400> 3
gtgctgcctc gtctgagggg acaggaggat caccctcttc gtcgcttcgg ccagtgtgtc 60
gggctgggcc ctgacaagcc acctgaggag aggctcggag ccgggcccgg accccggcga 120
ttgccgcccg cttctctcta gtctcacgag gggtttcccg cctcgcaccc ccacctctgg 180
acttgccttt ccttctcttc tccgcgtgtg gagggagcca gcgcttaggc cggagcgagc 240
ctgggggccg cccgccgtga agacatcgcg gggaccgatt caccatggag ggcgccggcg 300
gcgcgaacga caagaaaaag ataagttctg aacgtcgaaa agaaaagtct cgagatgcag 360
ccagatctcg gcgaagtaaa gaatctgaag ttttttatga gcttgctcat cagttgccac 420
ttccacataa tgtgagttcg catcttgata aggcctctgt gatgaggctt accatcagct 480

atttgcgtgt gaggaaactt ctggatgctg gtgatttgga tattgaagat gacatgaaag 540
cacagatgaa ttgcttttat ttgaaagcct tggatggttt tgttatggtt ctcacagatg 600
atggtgacat gatttacatt tctgataatg tgaacaaata catgggatta actcagtttg 660
aactaactgg acacagtgtg tttgatttta ctcatccatg tgaccatgag gaaatgagag 720
aaatgcttac acacagaaat ggccttgtga aaaagggtaa agaacaaaac acacagcgaa 780
gctttttttct cagaatgaag tgtaccctaa ctagccgagg aagaactatg aacataaagt 840
ctgcaacatg gaaggtattg cactgcacag gccacattca cgtatatgat accaacagta 900
accaacctca gtgtgggtat aagaaaccac ctatgacctg cttggtgctg atttgtgaac 960
ccattcctca cccatcaaat attgaaattc ctttagatag caagactttc ctcagtcgac 1020
acagcctgga tatgaaattt tcttattgtg atgaaagaat taccgaattg atgggatatg 1080
agccagaaga acttttaggc cgctcaattt atgaatatta tcatgctttg gactctgatc 1140
atctgaccaa aactcatcat gatatgttta ctaaaggaca agtcaccaca ggacagtaca 1200
ggatgcttgc caaaagaggt ggatatgtct gggttgaaac tcaagcaact gtcatatata 1260
acaccaagaa ttctcaacca cagtgcattg tatgtgtgaa ttacgttgtg agtggtatta 1320
ttcagcacga cttgattttc tcccttcaac aaacagaatg tgtccttaaa ccggttgaat 1380
cttcagatat gaaaatgact cagctattca ccaaagttga atcagaagat acaagtagcc 1440
tctttgacaa acttaagaag gaacctgatg ctttaacttt gctggcccca gccgctggag 1500
acacaatcat atctttagat tttggcagca acgacacaga aactgatgac cagcaacttg 1560
aggaagtacc attatataat gatgtaatgc tcccctcacc caacgaaaaa ttacagaata 1620
taaatttggc aatgtctcca ttacccaccg ctgaaacgcc aaagccactt cgaagtagtg 1680
ctgaccctgc actcaatcaa gaagttgcat taaaattaga accaaatcca gagtcactgg 1740
aactttcttt taccatgccc cagattcagg atcagacacc tagtccttcc gatggaagca 1800
ctagacaaag ttcacctgag cctaatagtc ccagtgaata ttgtttttat gtggatagtg 1860
atatggtcaa tgaattcaag ttggaattgg tagaaaaact ttttgctgaa gacacagaag 1920
caaagaaccc attttctact caggacacag atttagactt ggagatgtta gctccctata 1980
tcccaatgga tgatgacttc cagttacgtt ccttcgatca gttgtcacca ttagaaagca 2040
gttccgcaag ccctgaaagc gcaagtcctc aaagcacagt tacagtattc cagcagactc 2100
aaatacaaga acctactgct aatgccacca ctaccactgc caccactgat gaattaaaaa 2160
cagtgacaaa agaccgtatg gaagacatta aaatattgat tgcatctcca tctcctaccc 2220
acatacataa agaaactact agtgccacat catcaccata tagagatact caaagtcgga 2280
cagcctcacc aaacagagca ggaaaaggag tcatagaaca gacagaaaaa tctcatccaa 2340
gaagccctaa cgtgttatct gtcgctttga gtcaaagaac tacagttcct gaggaagaac 2400
taaatccaaa gatactagct ttgcagaatg ctcagagaaa gcgaaaaatg gaacatgatg 2460
gttcactttt tcaagcagta ggaattattt agcatgtaga ctgctggggc aatcaatgga 2520
tgaaagtgga ttaccacagc tgaccagtta tgattgtgaa gttaatgctc ctatacaagg 2580
cagcagaaac ctactgcagg gtgaagaatt actcagagct ttggatcaag ttaactgagc 2640
ttttttcttaa tttcattcct ttttttggac actggtggct cactacctaa agcagtctat 2700
ttatattttc tacatctaat tttagaagcc tggctacaat actgcacaaa cttggttagt 2760
tcaatttttg atccccttttc tacttaattt acattaatgc tctttttttag tatgttcttt 2820
aatgctggat cacagacagc tcatttttctc agtttttttgg tatttaaacc attgcattgc 2880
agtagcatca ttttaaaaaa tgcacctttt tatttattta tttttggcta gggagtttat 2940
ccctttttcg aattattttt aagaagatgc caatataatt tttgtaagaa ggcagtaacc 3000
tttcatcatg atcataggca gttgaaaaat ttttacacct tttttttcac attttacata 3060
aataataatg ctttgccagc agtacgtggt agccacaatt gcacaatata ttttcttaaa 3120
aaataccagc agttactcat ggaatatatt ctgcgtttat aaaactagtt tttaagaaga 3180
aatttttttt ggcctatgaa attgttaaac ctggaacatg acattgttaa tcatataata 3240
atgattctta aatgctgtat ggtttattat ttaaatgggt aaagccattt acataatata 3300
gaaagatatg catatatcta gaaggtatgt ggcatttatt tggataaaat tctcaattca 3360
gagaaatcat ctgatgtttc tatagtcact ttgccagctc aaaagaaaac aataccctat 3420
gtagttgtgg aagtttatgc taatattgtg taactgatat taaacctaaa tgttctgcct 3480
accctgttgg tataaagata ttttgagcag actgtaaaca agaaaaaaaa aatcatgcat 3540
tcttagcaaa attgcctagt atgttaattt gctcaaaata caatgtttga ttttatgcac 3600
tttgtcgcta ttaacatcct ttttttcatg tagatttcaa taattgagta attttagaag 3660
cattatttta ggaatatata gttgtcacag taaatatctt gtttttttcta tgtacattgt 3720
acaaatttttt cattcctttt gctctttgtg gttggatcta acactaactg tattgttttg 3780

ttacatcaaa taaacatctt ctgtggacca gg 3812

<210> 4
<211> 3718
<212> DNA
<213> Rattus norvegicus

<400> 4
gacaccgcgg gcaccgattc gccatggagg gcgccggcgg cgagaacgag aagaaaaata 60
ggatgagttc cgaacgtcga aaagaaaagt ctagggatgc agcacgatct cggcgaagca 120
aagagtctga agtttttat gagcttgctc atcagttgcc acttccccac aacgtgagct 180
cccatcttga taaagcttct gttatgaggc tcaccatcag ttacttacgt gtgaggaaac 240
ttctaggtgc tggtgatctt gacattgaag atgaaatgaa agcacagatg aactgctttt 300
atctgaaagc cctggatggc tttgttatgg tgctaacaga tgatggtgac atgatttaca 360
tttctgataa cgtgaacaaa tacatggggt tgactcagtt tgaactaact ggacacagtg 420
tgtttgattt tacccatcca tgtgaccatg aggaaatgag agaaatgctt acacacagaa 480
atggcccagt gagaaagggg aaagaacaaa acacgcagcg aagctttttt ctcagaatga 540
aatgtaccct aacaagccgg gggaggacga tgaacatcaa gtcagcaacg tggaaggtgc 600
tgcactgcac aggccacatt catgtgtatg ataccagcag taaccagccg cagtgtggct 660
acaagaaacc gcctatgacg tgcttggtgc tgatttgtga acccattcct catccatcaa 720
acattgaaat tcctttagac agcaagacat ttctcagtcg acacagcctc gatatgaaat 780
tttcttactg tgatgaaagg attactgagt tgatgggtta tgagccagaa gaacttttgg 840
gccgttcaat ttatgaatat tatcatgctt tggactctga tcatctgacc aaaactcatc 900
atgacatgtt tactaaagga caagtcacca caggacagta caggatgctt gcaaaaagag 960
gtggatatgt ctgggttgag actcaagcaa ctgttatata taatacgaag aactctcagc 1020
cacagtgcat tgtgtgtgtg aattatgttg taagtggtat tattcagcac gacttgattt 1080
tctcccttca acaaacagaa tctgtcctca aaccagttga atcttcagat atgaaaatga 1140
cccagctgtt cactaaagtg gaatctgagg acacgagctg cctcttcgac aagcttaaga 1200
aagagcccga tgccctgact ctgctagctc cagcggctgg ggacacgatc atatcactgg 1260
acttcggcag cgatgacacg gaaactgaag accaacaact tgaagatgtc ccgttgtaca 1320
atgatgtaat gttccccctct tctaatgaga aattaaatat aaatctggca atgtctccat 1380
tacctgcctc tgaaactcca aagccacttc gaagtagtgc tgatcctgca ctgaatcaag 1440
aggttgcatt gaagttagag tcaagcccag agtcactggg actttctttt accatgcccc 1500
agattcaaga tcagccagca agtccttctg atggaagcac tagacaaagc tcacctgagc 1560
ctaacagtcc cagtgagtac tgctttgatg tggacagcga tatggtcaat gtattcaagt 1620
tggaactggt ggaaaaactg tttgctgaag acacagaagc gaagaatcca ttttcagctc 1680
aggacactga tttagacttg gaaatgctgg ctccctatat cccaatggat gatgatttcc 1740
agttacgttc ctttgatcag ttgtcaccat tagagagcaa ttctccaagc cctccgagtg 1800
tgagcacagt tacaggattc cagcagaccc agttacagaa acctaccatc actgtcactg 1860
ccaccgcaac tgccaccact gatgaatcaa aagcagtgac gaaggacaat atagaagaca 1920
ttaaaatact gattgcatct ccaccttcta cccaagtacc tcaagaaatg accactgcta 1980
aggcatcagc atacagtggt actcacagtc ggacagcctc accagacaga gcaggaaaga 2040
gagtcataga aaaaacagac aaagctcatc caaggagcct taacctatct gtcactttga 2100
atcaaagaaa tactgttcct gaagaagaat taaacccaaa gacaatagct ttgcagaatg 2160
ctcagaggaa gcgaaaaatg gaacatgatg gctccctttt tcaagcagca ggaattggaa 2220
cgttactgca gcaaccaggt gaccgtgccc ctactatgtc gctttcttgg aaacgagtga 2280
aaggatacat atctagtgaa caggatggaa tggagcagaa gacaattttt ttaataccct 2340
ctgatttagc atgtagactg ctggggcagt caatggatga gagtggatta ccacagctga 2400
ccagttacga ttgtgaagtt aatgctccca tacaaggcag cagaaaccta ctgcagggtg 2460
aagaattact cagagctttg gatcaagtta actgagcttt tcctaatctc attcctttga 2520
ttgttaattt ttgtgttcag ttgttgttgt tgtctgtggg gtttcgtttc tgttggttgt 2580
tttggacact ggtggctcag cagtctattt atattttcta tatctcattt agaggcctgg 2640
ctacagtact gcaccaactc agatagttta gtttgggccc cttcctcctt cattttcact 2700
gatgctcttt ttaccatgtc cttcgaatgc cagatcacag cacattcaca gctccccagc 2760
atttcaccaa tgcattgctg tagtgtcgtt taaaatgcac ctttttattt atttattttt 2820

ggtgagggag tttgtccctt attgaattat ttttaatgaa atgccaatat aatttttaa 2880
gaaggcagta aatcttcatc atgatgatag gcagttgaaa atttttttact catttttttc 2940
atgttttaca tgaaaataat gctttgccag cagtacatgg tagccacaat tgcacaatat 3000
attttcttaa aaataccagc agttactcat gcatatattc tgcatttata aaactagttt 3060
ttaagaagaa actttttttg gcctatggaa ttgttaagcc tggatcatga tgctgttgat 3120
cttataatga ttcttaaact gtatggtttc tttatatggg taaagccatt tacatgatat 3180
agagagatat gcttatatct ggaaggtata tggcatttat ttggataaaa ttctcaattg 3240
agaagttatc tggtgtttct ttactttacc ggctcaaaag aaaacagtcc ctatgtagtt 3300
gtggaagctt atgctaatat tgtgtaattg atattaaaca ttaaatgttc tgcctatcct 3360
gttggtataa agacattttg agcatactgt aaacaaaaaa atcatgcatt gttagtaaaa 3420
ttgcctagta tgttaatttg ttgaaaatac gatgtttggt tttatgcact ttgtcgctat 3480
taacatcctt tttttcatat agatttcaat aattgagtaa ttttagaagc attattttag 3540
aaatatagag ttgtcatagt aaacatcttg ttttttttttc ttttttttcta tgtacattgt 3600
ataaattttt cattcccttg ctctttgtag ttgggtctaa cactaactgt actgttttgt 3660
tatatcaaat aaacatcttc tgtggaccag gaaaaaaaaa aaaaaaaaaa aaaaaaaa 3718

<210> 5
<211> 3973
<212> DNA
<213> Mus musculus

<400> 5
cgcgaggact gtcctcgccg ccgtcgcggg cagtgtctag ccaggccttg acaagctagc 60
cggaggagcg cctaggaacc cgagccggag ctcagcgagc gcagcctgca cgcccgcctc 120
gcgtcccggg ggggtcccgc ctcccacccc gcctctggac ttgtctcttt ccccgcgcgc 180
gcggacagag ccggcgttta ggcccgagcg agcccggggg ccgccggccg ggaagacaac 240
gcgggcaccg attcgccatg gagggcgccg gcggcgagaa cgagaagaaa aagatgagtt 300
ctgaacgtcg aaaagaaaag tctagagatg cagcaagatc tcggcgaagc aaagagtctg 360
aagtttttta tgagcttgct catcagttgc cacttcccca caatgtgagc tcacatcttg 420
ataaagcttc tgttatgagg ctcaccatca gttatttacg tgtgagaaaa cttctggatg 480
ccggtggtct agacagtgaa gatgagatga aggcacagat ggactgtttt tatctgaaag 540
ccctagatgg ctttgtgatg gtgctaacag atgacggcga catggtttac atttctgata 600
acgtgaacaa atacatgggg ttaactcagt ttgaactaac tggacacagt gtgtttgatt 660
ttactcatcc atgtgaccat gaggaaatga gagaaatgct tacacacaga aatggcccag 720
tgagaaaagg gaaagaacta aacacacagc ggagcttttt tctcagaatg aagtgcaccc 780
taacaagccg ggggaggacg atgaacatca agtcagcaac gtggaaggtg cttcactgca 840
cgggccatat tcatgtctat gataccaaca gtaaccaacc tcagtgtggg tacaagaaac 900
cacccatgac gtgcttggtg ctgatttgtg aacccattcc tcatccgtca aatattgaaa 960
ttcctttaga tagcaagaca tttctcagtc gacacagcct cgatatgaaa ttttcttact 1020
gtgatgaaag aattactgag ttgatgggtt atgagccgga agaacttttg ggccgctcaa 1080
tttatgaata ttatcatgct ttggattctg atcatctgac caaaactcac catgatatgt 1140
ttactaaagg acaagtcacc acaggacagt acaggatgct tgccaaaaga ggtggatatg 1200
tctgggttga aactcaagca actgtcatat ataatacgaa gaactcccag ccacagtgca 1260
ttgtgtgtgt gaattatgtt gtaagtggta ttattcagca cgacttgatt ttctcccttc 1320
aacaaacaga atctgtgctc aaaccagttg aatcttcaga tatgaagatg actcagctgt 1380
tcaccaaagt tgaatcagag gatacaagct gccttttga taagcttaag aaggagcctg 1440
atgctctcac tctgctggct ccagctgccg gcgacaccat catctctctg gattttggca 1500
gcgatgacac agaaactgaa gatcaacaac ttgaagatgt tccattatat aatgatgtaa 1560
tgtttccctc ttctaatgaa aaattaaata taaacctggc aatgtctcct ttaccttcat 1620
cggaaactcc aaagccactt cgaagtagtg ctgatcctgc actgaatcaa gaggttgcat 1680
taaaattaga atcaagtcca gagtcactgg gactttcttt taccatgccc cagattcaag 1740
atcagccagc aagtccttct gatggaagca ctagacaaag ttcacctgag agacttcttc 1800
aggaaaacgt aaacactcct aacttttccc agcctaacag tcccagtgaa tattgctttg 1860
atgtggatag cgatatggtc aatgtattca agttggaact ggtggaaaaa ctgtttgctg 1920
aagacacaga ggcaaagaat ccattttcaa ctcaggacac tgatttagat ttggagatgc 1980

tggctcccta tatcccaatg gatgatgatt tccagttacg ttcctttgat cagttgtcac 2040
cattagagag caattctcca agccctccaa gtatgagcac agttactggg ttccagcaga 2100
cccagttaca gaaacctacc atcactgcca ctgccaccac aactgccacc actgatgaat 2160
caaaaacaga gacgaaggac aataaagaag atattaaaat actgattgca tctccatctt 2220
ctacccaagt acctcaagaa acgaccactg ctaaggcatc agcatacagt ggcactcaca 2280
gtcggacagc ctcaccagac agagcaggaa agagagtcat agaacagaca gacaaagctc 2340
atccaaggag ccttaagctg tctgccactt tgaatcaaag aaatactgtt cctgaggaag 2400
aattaaaccc aaagacaata gcttcgcaga atgctcagag gaagcgaaaa atggaacatg 2460
atggctccct ttttcaagca gcaggaattg gaacattatt gcagcaacca ggtgactgtg 2520
cacctactat gtcactttcc tggaaacgag tgaaaggatt catatctagt gaacagaatg 2580
gaacggagca aaagactatt attttaatac cctccgattt agcatgcaga ctgctggggc 2640
agtcaatgga tgagagtgga ttaccacagc tgaccagtta cgattgtgaa gttaatgctc 2700
ccatacaagg cagcagaaac ctactgcagg gtgaagaatt actcagagct ttggatcaag 2760
ttaactgagc gtttcctaat ctcattcctt ttgattgtta atgtttttgt tcagttgttg 2820
ttgtttgttg ggtttttgtt tctgttggtt atttttggac actggtggct cagcagtcta 2880
tttatatttt ctatatctaa ttttagaagc ctggctacaa tactgcacaa actcagatag 2940
tttagttttc atccccttttc tacttaattt tcattaatgc tctttttaat atgttctttt 3000
aatgccagat cacagcacat tcacagctcc tcagcatttc accattgcat tgctgtagtg 3060
tcatttaaaa tgcacctttt tatttattta tttttggtga gggagtttgt cccttattga 3120
attattttta atgaaatgcc aatataattt tttaagaaag cagtaaattc tcatcatgat 3180
cataggcagt tgaaaacttt ttactcattt ttttcatgtt ttacatgaaa ataatgcttt 3240
gtcagcagta catggtagcc acaattgcac aatatatttt ctttaaaaaa ccagcagtta 3300
ctcatgcaat atattctgca tttataaaac tagtttttaa gaaatttttt ttggcctatg 3360
gaattgttaa gcctggatca tgaagcgttg atcttataat gattcttaaa ctgtatggtt 3420
tctttatatg ggtaaagcca tttacatgat ataaagaaat atgcttatat ctggaaggta 3480
tgtggcattt atttggataa aattctcaat tcagagaagt tatctggtgt ttcttgactt 3540
taccaactca aaacagtccc tctgtagttg tggaagctta tgctaatatt gtgtaattga 3600
ttatgaaaca taaatgttct gcccaccctg ttggtataaa gacattttga gcatactgta 3660
aacaaacaaa caaaaaatca tgctttgtta gtaaaattgc ctagtatgtt gatttgttga 3720
aaatatgatg tttggtttta tgcactttgt cgctattaac atccttttt catatagatt 3780
tcaataagtg agtaatttta gaagcattat tttaggaata tagagttgtc atagtaaaca 3840
tcttgttttt tctatgtaca ctgtataaat ttttcgttcc cttgctcttt gtggttgggt 3900
ctaacactaa ctgtactgtt ttgttatatc aaataaacat cttctgtgga ccaggaaaaa 3960
aaaaaaaaaa aaa 3973

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 6
aactggacac agtgtgtttg a 21

<210> 7
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> siRNA sense strand

<400> 7

aacuaacugg acacagugug uuu 23

<210> 8
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> siRNA antisense strand

<400> 8
acacacugug uccaguuagu uuu 23

<210> 9
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> siRNA sense strand

<400> 9
aacuaacugg acacagugug utt 23

<210> 10
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> siRNA antisense strand

<400> 10
acacacugug uccaguuagu utt 23

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 11
aactaactgg acacagtgtg t 21

<210> 12
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 12

cgacaagaaa aagataa 17

<210> 13
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 13
aaagataagt tctgaac 17

<210> 14
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 14
agataagttc tgaacgt 17

<210> 15
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 15
gttctgaacg tcgaaaa 17

<210> 16
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 16
aagaaaagtc tcgagat 17

<210> 17
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 17

gaaaagtctc gagatgc 17

<210> 18
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 18
agtctcgaga tgcagcc 17

<210> 19
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 19
gtaaagaatc tgaagtt 17

<210> 20
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 20
gaatctgaag tttttta 17

<210> 21
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 21
gttttttatg agcttgc 17

<210> 22
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 22

ggcctctgtg atgaggc 17

<210> 23
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 23
cttctggatg ctggtga 17

<210> 24
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 24
agcacagatg aattgct 17

<210> 25
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 25
aaatgcttac acacagaaat g 21

<210> 26
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 26
gaaaaagata agttctg 17

<210> 27
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 27

aagataagtt ctgaacg 17

<210> 28
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 28
gataagttct gaacgtc 17

<210> 29
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 29
cgtcgaaaag aaaagtc 17

<210> 30
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 30
agaaaagtct cgagatg 17

<210> 31
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 31
aagtctcgag atgcagc 17

<210> 32
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 32

gtctcgagat gcagcca 17

<210> 33
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 33
agaatctgaa gtttttt 17

<210> 34
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 34
tctgaagttt tttatga 17

<210> 35
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 35
tgtgagttcg catcttg 17

<210> 36
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 36
acttctggat gctggtg 17

<210> 37
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 37

gatgacatga aagcaca 17

<210> 38
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 38
gcacagatga attgctt 17

<210> 39
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 39
aagtttttta tgagcttgct c 21

<210> 40
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 40
aagtttttta tgagcttgct c 21

<210> 41
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 41
aaggcctctg tgatgaggct t 21

<210> 42
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 42

aaacttctgg atgctggtga t 21

<210> 43
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 43
aacttctgga tgctggtgat t 21

<210> 44
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 44
aagatgacat gaaagcacag a 21

<210> 45
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 45
aaagcacaga tgaattgctt t 21

<210> 46
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 46
aagcacagat gaattgcttt t 21

<210> 47
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 47

aattgctttt atttgaaagc c 21

<210> 48
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 48
aaagccttgg atggttttgt t 21

<210> 49
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 49
aagccttgga tggttttgtt a 21

<210> 50
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 50
aatgtgaaca aatacatggg a 21

<210> 51
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 51
aacaaataca tgggattaac t 21

<210> 52
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 52

aaatacatgg gattaactca g 21

<210> 53
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 53
aaatacatgg gattaactca g 21

<210> 54
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 54
aactcagttt gaactaactg g 21

<210> 55
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 55
aactaactgg acacagtgtg t 21

<210> 56
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 56
aactggacac agtgtgtttg a 21

<210> 57
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 57

aaatgagaga aatgcttaca c 21

<210> 58
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 58
aatgagagaa atgcttacac a 21

<210> 59
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 59
aaatgcttac acacagaaat g 21

<210> 60
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 60
aatgcttaca cacagaaatg g 21

<210> 61
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 61
aaatggcctt gtgaaaaagg g 21

<210> 62
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 62

aatggccttg tgaaaaaggg t 21

<210> 63
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 63
aaaaagggta aagaacaaaa c 21

<210> 64
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 64
aaaagggtaa agaacaaaac a 21

<210> 65
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 65
aaagggtaaa gaacaaaaca c 21

<210> 66
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 66
aagggtaaag aacaaaacac a 21

<210> 67
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 67

aaagaacaaa acacacagcg a 21

<210> 68
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 68
aagaacaaaa cacacagcga a 21

<210> 69
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 69
aacaaaacac acagcgaagc t 21

<210> 70
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 70
aacaaaacac acagcgaagc t 21

<210> 71
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 71
aaacacacag cgaagctttt t 21

<210> 72
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 72

aacacacagc gaagcttttt t 21

<210> 73
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 73
aagctttttt ctcagaatga a 21

<210> 74
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 74
aatgaagtgt accctaacta g 21

<210> 75
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 75
aagtgtaccc taactagccg a 21

<210> 76
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 76
aactagccga ggaagaacta t 21

<210> 77
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 77

aagaactatg aacataaagt c 21

<210> 78
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 78
aactatgaac ataaagtctg c 21

<210> 79
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 79
aacataaagt ctgcaacatg g 21

<210> 80
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 80
aaagtctgca acatggaagg t 21

<210> 81
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 81
aagtctgcaa catggaaggt a 21

<210> 82
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 82

aacatggaag gtattgcact g 21

<210> 83
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 83
aaggtattgc actgcacagg c 21

<210> 84
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 84
aacagtaacc aacctcagtg t 21

<210> 85
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 85
aaccaacctc agtgtgggta t 21

<210> 86
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 86
aacctcagtg tgggtataag a 21

<210> 87
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 87

aagaaaccac ctatgacctg c 21

<210> 88
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 88
aagaaaccac ctatgacctg c 21

<210> 89
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 89
aaccacctat gacctgcttg g 21

<210> 90
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 90
aacccattcc tcacccatca a 21

<210> 91
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 91
aaatattgaa attcctttag a 21

<210> 92
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 92

aatattgaaa ttcctttaga t 21

<210> 93
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 93
aaattccttt agatagcaag a 21

<210> 94
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 94
aattccttta gatagcaaga c 21

<210> 95
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 95
aagactttcc tcagtcgaca c 21

<210> 96
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 96
aaattttctt attgtgatga a 21

<210> 97
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 97

aattttctta ttgtgatgaa a 21

<210> 98
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 98
aaagaattac cgaattgatg g 21

<210> 99
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 99
aattaccgaa ttgatgggat a 21

<210> 100
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 100
aattaccgaa ttgatgggat a 21

<210> 101
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 101
aagaactttt aggccgctca a 21

<210> 102
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 102

aacttttagg ccgctcaatt t 21

<210> 103
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 103
aatttatgaa tattatcatg c 21

<210> 104
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 104
aatattatca tgctttggac t 21

<210> 105
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 105
aaaactcatc atgatatgtt t 21

<210> 106
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 106
aaactcatca tgatatgttt a 21

<210> 107
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 107

aactcatcat gatatgttta c 21

<210> 108
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 108
aaaggacaag tcaccacagg a 21

<210> 109
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 109
aaggacaagt caccacagga c 21

<210> 110
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 110
aagtcaccac aggacagtac a 21

<210> 111
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 111
aaaagaggtg gatatgtctg g 21

<210> 112
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 112

aaagaggtgg atatgtctgg g 21

<210> 113
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 113
aagaggtgga tatgtctggg t 21

<210> 114
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 114
aaactcaagc aactgtcata t 21

<210> 115
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 115
aactcaagca actgtcatat a 21

<210> 116
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 116
aagcaactgt catatataac a 21

<210> 117
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 117

aactgtcata tataacacca a 21

<210> 118
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 118
aacaccaaga attctcaacc a 21

<210> 119
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 119
aagaattctc aaccacagtg c 21

<210> 120
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 120
aattctcaac cacagtgcat t 21

<210> 121
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 121
aaccacagtg cattgtatgt g 21

<210> 122
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 122

aattacgttg tgagtggtat t 21

<210> 123
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 123
aacaaacaga atgtgtcctt a 21

<210> 124
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 124
aaacagaatg tgtccttaaa c 21

<210> 125
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 125
aacagaatgt gtccttaaac c 21

<210> 126
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 126
atgtgtcctt aaaccggttg 20

<210> 127
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 127

aaaccggttg aatcttcaga t 21

<210> 128
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 128
aaccggttga atcttcagat a 21

<210> 129
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 129
aatcttcaga tatgaaaatg a 21

<210> 130
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 130
aaaatgactc agctattcac c 21

<210> 131
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 131
aaatgactca gctattcacc a 21

<210> 132
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 132

aatgactcag ctattcacca a 21

<210> 133
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 133
aaagttgaat cagaagatac a 21

<210> 134
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 134
aagttgaatc agaagataca a 21

<210> 135
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 135
aatcagaaga tacaagtagc c 21

<210> 136
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 136
aagatacaag tagcctcttt g 21

<210> 137
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 137

aagtagcctc tttgacaaac t 21

<210> 138
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 138
aaacttaaga aggaacctga t 21

<210> 139
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 139
aacttaagaa ggaacctgat g 21

<210> 140
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 140
aagaaggaac ctgatgcttt a 21

<210> 141
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 141
aaggaacctg atgctttaac t 21

<210> 142
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 142

aacctgatgc tttaactttg c 21

<210> 143
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 143
aactttgctg gccccagccg c 21

<210> 144
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 144
aatcatatct ttagattttg g 21

<210> 145
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 145
aacgacacag aaactgatga c 21

<210> 146
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 146
aaactgatga ccagcaactt g 21

<210> 147
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 147

aactgatgac cagcaacttg a 21

<210> 148
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 148
aacttgagga agtaccatta t 21

<210> 149
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 149
aagtaccatt atataatgat g 21

<210> 150
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 150
aatgatgtaa tgctcccctc a 21

<210> 151
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 151
aatgctcccc tcacccaacg a 21

<210> 152
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 152

aacgaaaaat tacagaatat a 21

<210> 153
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 153
aaaaattaca gaatataaat t 21

<210> 154
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 154
aaaattacag aatataaatt t 21

<210> 155
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 155
aaattacaga atataaattt g 21

<210> 156
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 156
aattacagaa tataaatttg g 21

<210> 157
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 157

aatataaatt tggcaatgtc t 21

<210> 158
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 158
aaatttggca atgtctccat t 21

<210> 159
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 159
aatttggcaa tgtctccatt a 21

<210> 160
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 160
aatgtctcca ttacccaccg c 21

<210> 161
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 161
aaacgccaaa gccacttcga a 21

<210> 162
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 162

aacgccaaag ccacttcgaa g 21

<210> 163
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 163
aaagccactt cgaagtagtg c 21

<210> 164
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 164
aagccacttc gaagtagtgc t 21

<210> 165
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 165
aagtagtgct gaccctgcac t 21

<210> 166
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 166
aatcaagaag ttgcattaaa a 21

<210> 167
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 167

aagaagttgc attaaaatta g 21

<210> 168
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 168
aagttgcatt aaaattagaa c 21

<210> 169
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 169
aaaattagaa ccaaatccag a 21

<210> 170
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 170
aaattagaac caaatccaga g 21

<210> 171
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 171
aattagaacc aaatccagag t 21

<210> 172
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 172

aaccaaatcc agagtcactg g 21

<210> 173
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 173
aaatccagag tcactggaac t 21

<210> 174
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 174
aatccagagt cactggaact t 21

<210> 175
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 175
aactttcttt taccatgccc c 21

<210> 176
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 176
aagcactaga caaagttcac c 21

<210> 177
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 177

aaagttcacc tgagcctaat a 21

<210> 178
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 178
aagttcacct gagcctaata g 21

<210> 179
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 179
aatagtccca gtgaatattg t 21

<210> 180
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 180
aatattgttt ttatgtggat a 21

<210> 181
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 181
aatgaattca agttggaatt g 21

<210> 182
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 182

aattcaagtt ggaattggta g 21

<210> 183
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 183
aagttggaat tggtagaaaa a 21

<210> 184
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 184
aattggtaga aaaacttttt g 21

<210> 185
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 185
aaaacttttt gctgaagaca c 21

<210> 186
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 186
aaacttttg ctgaagacac a 21

<210> 187
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 187

aacttttgc tgaagacaca g 21

<210> 188
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 188
aagacacaga agcaaagaac c 21

<210> 189
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 189
aagcaaagaa cccatttct a 21

<210> 190
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 190
aaagaaccca ttttctactc a 21

<210> 191
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 191
aagaacccat tttctactca g 21

<210> 192
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 192

aacccatttt ctactcagga c 21

<210> 193
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 193
aatggatgat gacttccagt t 21

<210> 194
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 194
aaagcagttc cgcaagccct g 21

<210> 195
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 195
aagcagttcc gcaagccctg a 21

<210> 196
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 196
aagccctgaa agcgcaagtc c 21

<210> 197
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 197

aaagcgcaag tcctcaaagc a 21

<210> 198
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 198
aagcgcaagt cctcaaagca c 21

<210> 199
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 199
aagtcctcaa agcacagtta c 21

<210> 200
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 200
aaagcacagt tacagtattc c 21

<210> 201
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 201
aagcacagtt acagtattcc a 21

<210> 202
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 202

aaatacaaga acctactgct a 21

<210> 203
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 203
aatacaagaa cctactgcta a 21

<210> 204
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 204
aagaacctac tgctaatgcc a 21

<210> 205
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 205
aacctactgc taatgccacc a 21

<210> 206
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 206
aatgccacca ctaccactgc c 21

<210> 207
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 207

aattaaaaac agtgacaaaa g 21

<210> 208
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 208
aaaaacagtg acaaaagacc g 21

<210> 209
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 209
aaaacagtga caaaagaccg t 21

<210> 210
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 210
aaacagtgac aaaagaccgt a 21

<210> 211
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 211
aacagtgaca aaagaccgta t 21

<210> 212
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 212

aaaagaccgt atggaagaca t 21

<210> 213
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 213
aaagaccgta tggaagacat t 21

<210> 214
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 214
aagaccgtat ggaagacatt a 21

<210> 215
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 215
aagacattaa aatattgatt g 21

<210> 216
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 216
aaaatattga ttgcatctcc a 21

<210> 217
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 217

aaatattgat tgcatctcca t 21

<210> 218
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 218
aatattgatt gcatctccat c 21

<210> 219
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 219
aaagaaacta ctagtgccac a 21

<210> 220
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 220
aagaaactac tagtgccaca t 21

<210> 221
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 221
aaactactag tgccacatca t 21

<210> 222
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 222

aactactagt gccacatcat c 21

<210> 223
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 223
aaagtcggac agcctcacca a 21

<210> 224
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 224
aagtcggaca gcctcaccaa a 21

<210> 225
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 225
aaacagagca ggaaaaggag t 21

<210> 226
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 226
aacagagcag gaaaaggagt c 21

<210> 227
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 227

aaaaggagtc atagaacaga c 21

<210> 228
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 228
aaaggagtca tagaacagac a 21

<210> 229
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 229
aaggagtcat agaacagaca g 21

<210> 230
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 230
aacagacaga aaaatctcat c 21

<210> 231
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 231
aaaaatctca tccaagaagc c 21

<210> 232
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 232

aaaatctcat ccaagaagcc c 21

<210> 233
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 233
aaatctcatc caagaagccc t 21

<210> 234
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 234
aatctcatcc aagaagccct a 21

<210> 235
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 235
aagaagccct aacgtgttat c 21

<210> 236
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 236
aagccctaac gtgttatctg t 21

<210> 237
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 237

aacgtgttat ctgtcgcttt g 21

<210> 238
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 238
aaagaactac agttcctgag g 21

<210> 239
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 239
aagaactaca gttcctgagg a 21

<210> 240
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 240
aactacagtt cctgaggaag a 21

<210> 241
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 241
aagaactaaa tccaaagata c 21

<210> 242
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 242

aactaaatcc aaagatacta g 21

<210> 243
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 243
aaatccaaag atactagctt t 21

<210> 244
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 244
aatccaaaga tactagcttt g 21

<210> 245
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 245
aaagatacta gctttgcaga a 21

<210> 246
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 246
aagatactag ctttgcagaa t 21

<210> 247
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 247

aatgctcaga gaaagcgaaa a 21

<210> 248
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 248
aaagcgaaaa atggaacatg a 21

<210> 249
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 249
aagcgaaaaa tggaacatga t 21

<210> 250
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 250
aaaaatggaa catgatggtt c 21

<210> 251
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 251
aaaatggaac atgatggttc a 21

<210> 252
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 252

aaatggaaca tgatggttca c 21

<210> 253
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 253
aatggaacat gatggttcac t 21

<210> 254
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 254
aacatgatgg ttcacttttt c 21

<210> 255
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 255
aagcagtagg aattggaaca t 21

<210> 256
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 256
aattggaaca ttattacagc a 21

<210> 257
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 257

aacattatta cagcagccag a 21

<210> 258
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 258
aaacgtgtaa aaggatgcaa a 21

<210> 259
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 259
aacgtgtaaa aggatgcaaa t 21

<210> 260
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 260
aaaaggatgc aaatctagtg a 21

<210> 261
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 261
aaaggatgca aatctagtga a 21

<210> 262
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 262

aaggatgcaa atctagtgaa c 21

<210> 263
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 263
aaatctagtg aacagaatgg a 21

<210> 264
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 264
aatctagtga acagaatgga a 21

<210> 265
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 265
aacagaatgg aatggagcaa a 21

<210> 266
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 266
aatggaatgg agcaaaagac a 21

<210> 267
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 267

aatggagcaa aagacaatta t 21

<210> 268
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 268
aaaagacaat tattttaata c 21

<210> 269
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 269
aaagacaatt attttaatac c 21

<210> 270
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 270
aagacaatta ttttaatacc c 21

<210> 271
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 271
aattatttta ataccctctg a 21

<210> 272
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 272

aataccctct gatttagcat g 21

<210> 273
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 273
aatcaatgga tgaaagtgga t 21

<210> 274
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 274
aatggatgaa agtggattac c 21

<210> 275
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 275
aaagtggatt accacagctg a 21

<210> 276
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 276
aagtggatta ccacagctga c 21

<210> 277
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 277

catcagttgc cacttccaca t 21

<210> 278
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 278
cttggatggt tttgttatgg t 21

<210> 279
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 279
atgggattaa ctcagtttga a 21

<210> 280
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 280
gtctgcaaca tggaaggtat t 21

<210> 281
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 281
cattcctcac ccatcaaata t 21

<210> 282
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 282

aggccgctca atttatgaat a 21

<210> 283
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 283
tcatatataa caccaagaat t 21

<210> 284
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 284
tgtccttaaa ccggttgaat c 21

<210> 285
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 285
agcctctttg acaaacttaa g 21

<210> 286
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 286
atgaccagca acttgaggaa g 21

<210> 287
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 287

cattacccac cgctgaaacg c 21

<210> 288
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 288
agattcagga tcagacacct a 21

<210> 289
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 289
atagtgatat ggtcaatgaa t 21

<210> 290
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 290
acacagattt agacttggag a 21

<210> 291
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 291
cacagttaca gtattccagc a 21

<210> 292
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 292

attgattgca tctccatctc c 21

<210> 293
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 293
atactagctt tgcagaatgc t 21

<210> 294
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 294
attattacag cagccagacg a 21

<210> 295
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 295
acaattattt taataccctc t 21

<210> 296
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 296
accagttatg attgtgaagt t 21

<210> 297
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> target sequence

<400> 297

aactaactgg acacagtgtg t 21

<210> 298
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> siRNA sense strand

<400> 298
cuaacuggac acagugugut t 21

<210> 299
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> siRNA antisense strand

<400> 299
acacacugug uccaguuagt t 21